

B.E.(Information Technology), First Semester  
ITC-101: Introduction to Information Technology

Time allowed: 3 Hours

Max. Marks: 50

**NOTE:** Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Section

x-x-x

Q1 Answer the following:

- (a) What is cache memory? How it is different from main memory?
- (b) Differentiate between syntax error and logical error.
- (c) What do you mean by real time operating system?
- (d) What do you mean by database management system?
- (e) Discuss the IP address with example.

(5\*2=10)

**SECTION-A**

Q2 a) What is an algorithm explain with suitable example?

5

b) What are output devices? Explain the working of plotters in detail.

5

Q3 Briefly explain the following

- a) Processor
- b) Instruction set

5

5

Q4. Covert the following

10

- a)  $(A5B)_{16} = ( ? )_2$
- b)  $(8C)_{16} = ( ? )_{10}$
- c)  $(24.625)_{10} = ( ? )_2$
- d)  $(10110)_2 = ( ? )_{10}$
- e)  $(39)_{10} = ( ? )_{16}$

**SECTION-B**

Q5 a) Explain the advantages and limitations of the DBMS as compared to the File Management System.

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b) What is an operating system? Differentiate between multitasking and multiprocessing operating system.

5

Q6 What is a software? Explain different types of software in detail.

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Q7. What is a computer network? Explain the fast Ethernet network technology in detail.

10

x-x-x